
APPENDIX D

Surface Area, Population, and

Average Daily Vehicle Miles Traveled

Appendix D: Surface Area, Population, and Average Daily Vehicle Miles Traveled

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Introduction

This appendix provides information on the square mile surface area, population, and average number of vehicle miles traveled (VMT) each day in California. The trend data for population and daily VMT cover the period 1982 through 2001. Data are listed for each air basin, for each county within each air basin, and for the State as a whole. In cases where a county is split between two or more air basins, the data reflect only that portion of the county within the respective air basin. It is important to note that the average daily VMT listed in the following tables has been divided by 1000.

The population data were derived from reports developed by the California Department of Finance (DOF), Demographic Research Unit. Split county fractions for 1990 and 2000 were derived using census 1990 and 2000 data. County and air basin fractions for years not listed above were interpolated. The population data do not reflect any adjustment for the estimated census undercount.

The estimates of daily vehicle miles traveled (VMT) for the years 1982 through 2001 are found in ARB's revised motor

vehicle emissions inventory model, EMFAC2002 version 2.2 (refer to: <http://www.arb.ca.gov/msei/msei.htm>). The VMT estimates have been revised from those published in last year's Almanac (from EMFAC2001 version 2.08), based on changes in vehicle population, mileage accrual rates, and the data provided by regional transportation planning agencies (RTPAs). For recent calendar years, the VMT estimates in large urbanized areas are provided by RTPAs as an output of their travel demand models. For historical years (pre-2000), the VMT is calculated as the product of vehicle population backcast from Department of Motor Vehicles data and mileage accrual rates (annual miles traveled by type and age of vehicle) calculated from the Bureau of Automotive Repair database for the Smog Check program. In this case, lower estimates of vehicle population and lower mileage accrual rates, along with subtle changes in the vehicle age distribution, combine to generate lower VMT estimates for all but the most recent years. More detailed information about the methodologies used in developing both the population and VMT trends is available from the ARB staff (916/322-6021).

Great Basin Valleys Air Basin

Surface Area = 13880 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	28800	28700	28000	27900	27700	27700	28100	28400	29390	29670	29880	30480	31020	30870	31210	31440	31590	31820	32250	32540
Avg. Daily VMT/1000	709	704	750	763	858	855	908	933	935	918	880	898	900	899	901	891	885	910	937	964

Table D-1

Alpine County

Surface Area = 723 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	1100	1100	1100	1100	1100	1100	1100	1100	1090	1120	1130	1130	1120	1170	1210	1240	1190	1170	1200	1190
Avg. Daily VMT/1000	26	26	26	27	30	31	33	35	36	36	35	36	37	37	39	40	40	41	42	

Table D-2

Inyo County

Surface Area = 10130 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	18400	18400	18100	18000	17800	17700	17900	18000	18200	18300	18250	18300	18450	18300	18300	18350	18300	18050	18200	18200
Avg. Daily VMT/1000	423	423	427	418	488	482	518	533	547	535	519	532	534	536	541	540	535	549	565	581

Table D-3

Mono County

Surface Area = 3027 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	9300	9200	8800	8800	8800	8900	9100	9300	10100	10250	10500	11050	11450	11400	11700	11850	12100	12600	12850	13150
Avg. Daily VMT/1000	260	255	297	318	340	342	357	365	352	347	326	330	329	326	321	311	310	321	331	341

Table D-4

Lake County Air Basin***Surface Area = 1260 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	39900	41700	43800	45600	46300	47300	48200	49200	51000	53000	54500	55500	56100	56600	56600	57000	56900	57600	58800	60200
Avg. Daily VMT/1000	919	968	986	1090	1159	1140	1196	1251	1276	1323	1377	1427	1462	1495	1498	1489	1469	1498	1545	1597

Table D-5

Lake County***Surface Area = 1260 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	39900	41700	43800	45600	46300	47300	48200	49200	51000	53000	54500	55500	56100	56600	56600	57000	56900	57600	58800	60200
Avg. Daily VMT/1000	919	968	986	1090	1159	1140	1196	1251	1276	1323	1377	1427	1462	1495	1498	1489	1469	1498	1545	1597

Table D-6

Lake Tahoe Air Basin

Surface Area = 500 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	36700	36100	36000	36200	36500	37000	37800	38300	39400	40800	41800	42700	43100	43700	44100	44800	45200	45900	47000	48500
Avg. Daily VMT/1000	582	610	624	695	739	753	807	837	856	910	934	970	995	1024	1031	1030	1025	1057	1082	1111

Table D-7

El Dorado County

Surface Area = 350 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	28000	27500	27300	27500	27700	28100	28800	29200	30000	31100	31700	32400	32600	32800	33000	33400	33600	33900	34800	35700
Avg. Daily VMT/1000	396	412	421	447	474	491	523	535	535	575	583	599	611	625	623	617	612	629	643	659

Table D-8

A portion of El Dorado County lies within the Mountain Counties Air Basin.

Placer County

Surface Area = 150 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	8700	8600	8700	8700	8800	8900	9000	9100	9400	9700	10100	10300	10500	10900	11100	11400	11600	12000	12200	12800
Avg. Daily VMT/1000	186	198	203	248	265	262	284	302	321	335	351	371	384	399	408	413	413	428	439	452

Table D-9

Portions of Placer County lie within the Mountain Counties and Sacramento Valley Air Basins.

Mojave Desert Air Basin

Surface Area = 25966 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	405900	430800	456700	485700	518600	554700	593300	634500	676400	702900	721900	732600	741200	749300	758800	771900	784800	802100	822000	841200
Avg. Daily VMT/1000	5704	6361	8405	9087	10236	12395	13308	14282	18237	18700	18977	19471	19838	20231	20623	20901	21291	21946	22576	23447

Table D-10

Kern County

Surface Area = 2570 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	88200	90900	93400	96300	98800	101200	103900	106800	111400	114300	116100	116200	116200	115400	114600	114300	112900	113000	113000	115600
Avg. Daily VMT/1000	1675	1761	2312	2473	2627	2889	3065	3206	3218	3426	3410	3555	3560	3607	3643	3610	3691	3851	4022	4197

Table D-11

A portion of Kern County lies within the San Joaquin Valley Air Basin.

Los Angeles County

Surface Area = 1300 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	121200	133900	147200	160500	175000	189300	203000	217500	231300	239100	246400	251600	256800	262100	266900	273700	281700	290300	300800	306100
Avg. Daily VMT/1000	2076	2474	3043	3240	3813	5405	5789	6117	6300	6247	6216	6199	6176	6147	6176	6181	6317	6502	6567	6845

Table D-12

A portion of Los Angeles County lies within the South Coast Air Basin.

Riverside County

Surface Area = 3116 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	11400	11800	12400	13100	13900	14800	15900	17100	18500	19800	20600	21300	21800	22200	22800	23600	24200	25000	25800	26900
Avg. Daily VMT/1000	82	86	115	123	134	146	161	169	245	258	272	289	305	322	337	351	362	373	390	403

Table D-13

Portions of Riverside County lie within the Salton Sea and South Coast Air Basins.

San Bernardino County

Surface Area = 18980 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	185100	194200	203700	215800	230900	249400	270500	293100	315200	329700	338800	343500	346400	349600	354500	360300	366000	373800	382400	392600
Avg. Daily VMT/1000	1871	2040	2935	3251	3662	3955	4293	4790	8474	8769	9079	9433	9797	10155	10467	10759	10921	11220	11597	12002

Table D-14

A portion of San Bernardino County lies within the South Coast Air Basin.

Mountain Counties Air Basin***Surface Area = 12497 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	248900	254600	261900	272800	283500	296900	312400	326800	345920	360180	368760	377080	381500	385760	389900	396850	400200	404430	411460	420300
Avg. Daily VMT/1000	5442	5702	6235	6739	7329	7784	8553	8962	9171	9386	9607	9941	10181	10431	10496	10469	10512	10767	11084	11528

Table D-15

Amador County***Surface Area = 593 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	20400	20800	21400	22200	22800	24000	26400	28300	30450	31650	32200	32900	33200	33400	33800	34500	34100	34750	35350	35850
Avg. Daily VMT/1000	605	626	656	700	762	826	885	912	983	995	1044	1081	1102	1127	1121	1098	1088	1110	1149	1202

Table D-16

Calaveras County***Surface Area = 1032 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	22800	23500	24200	25000	26100	27600	28800	30600	32450	34500	35950	36750	37600	38350	38600	39950	39700	40300	40700	41500
Avg. Daily VMT/1000	604	624	684	689	750	823	890	936	985	979	1056	1101	1137	1172	1153	1126	1127	1156	1209	1272

Table D-17

El Dorado County***Surface Area = 1476 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	64300	65800	68000	71600	75200	79500	85200	90500	97300	102000	105000	108500	110200	112100	114000	116400	118400	120600	124900	128200
Avg. Daily VMT/1000	1297	1378	1501	1661	1827	2006	2244	2422	2204	2314	2388	2494	2588	2685	2772	2842	2909	2898	2874	3019

Table D-18

A portion of El Dorado County lies within the Lake Tahoe Air Basin.

Mariposa County

Surface Area = 1455 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	11700	11900	12200	12500	12700	12900	13300	13600	14400	15050	15600	16050	16300	16450	16550	16700	16900	16950	17050	17000
Avg. Daily VMT/1000	263	282	294	310	333	344	362	394	449	458	470	482	493	503	485	466	464	473	487	501

Table D-19

Nevada County

Surface Area = 1160 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	58800	60400	62300	64700	67100	69900	72800	75300	79000	82100	83500	84900	85800	87100	88100	89400	90300	90900	92200	94200
Avg. Daily VMT/1000	1176	1207	1418	1582	1645	1616	1763	1880	2062	2115	2129	2190	2232	2273	2292	2289	2302	2365	2434	2511

Table D-20

Placer County

Surface Area = 958 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	13200	13700	14400	15100	16000	16900	17900	19000	20500	21000	21300	21400	21500	21800	21900	22000	22100	22300	22100	23200
Avg. Daily VMT/1000	243	257	310	344	375	399	431	419	412	431	446	468	485	504	522	536	536	633	746	783

Table D-21

Portions of Placer County lie within the Lake Tahoe and Sacramento Valley Air Basins.

Plumas County

Surface Area = 975 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	18200	18000	18100	18600	18700	19000	19300	19300	19800	20150	20750	20900	20800	20800	20750	21000	20850	20750	20750	21000
Avg. Daily VMT/1000	349	376	389	403	451	470	512	535	562	574	583	604	608	615	634	648	641	654	667	679

Table D-22

Sierra County*Surface Area = 2569 square miles*

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	3200	3200	3200	3200	3200	3200	3300	3200	3320	3330	3360	3480	3500	3560	3600	3600	3850	3780	3610	3550
Avg. Daily VMT/1000	69	71	75	77	82	86	94	98	100	97	93	94	93	92	96	97	94	96	99	101

Table D-23

Tuolumne County*Surface Area = 2279 square miles*

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	36300	37300	38100	39900	41700	43900	45400	47000	48700	50400	51100	52200	52600	52200	52600	53300	54000	54100	54800	55800
Avg. Daily VMT/1000	836	881	908	973	1104	1214	1372	1366	1414	1423	1398	1427	1443	1460	1421	1367	1351	1382	1419	1460

Table D-24

North Central Coast Air Basin

Surface Area = 5160 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	529400	542000	553700	565800	578000	588300	598100	610200	623000	634900	646050	649950	640800	645950	650150	674750	686500	700000	713900	721700
Avg. Daily VMT/1000	9600	10370	11033	12267	13107	13667	14647	15509	16058	16040	16040	16379	16477	16656	16872	16886	17237	17731	18324	18618

Table D-25

Monterey County

Surface Area = 3320 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	306600	314400	321700	327400	333700	338400	343000	346600	356800	365700	372300	372700	359900	360400	360700	379300	386400	394600	403100	408000
Avg. Daily VMT/1000	6096	6537	6992	7645	8061	8458	9057	9588	9911	9912	9868	10051	10061	10123	10308	10377	10595	10942	11346	11519

Table D-26

San Benito County

Surface Area = 1400 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	26700	27500	28600	29900	31400	32700	34100	35900	36900	37900	39850	41050	42300	44350	46050	48450	50200	52200	53800	55200
Avg. Daily VMT/1000	615	667	733	830	884	949	1033	1130	1188	1206	1239	1292	1315	1353	1368	1360	1408	1451	1498	1538

Table D-27

Santa Cruz County

Surface Area = 440 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	196100	200100	203400	208500	212900	217200	221000	227700	229300	231300	233900	236200	238600	241200	243400	247000	249900	253200	257000	258500
Avg. Daily VMT/1000	2889	3166	3308	3792	4162	4260	4557	4791	4959	4922	4933	5036	5101	5180	5196	5149	5234	5338	5480	5561

Table D-28

North Coast Air Basin***Surface Area = 12270 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	250500	252300	254700	258200	261900	265700	271700	276700	286750	293250	297600	300850	301850	303250	304550	308100	307250	308950	311700	313900
Avg. Daily VMT/1000	5456	5825	6042	6531	7025	7307	7771	8238	8691	8645	8613	8855	8961	9098	9076	8934	8858	9032	9210	9387

Table D-29

Del Norte County***Surface Area = 1000 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	18700	18900	18800	19100	19500	20000	20900	20400	24450	26550	27250	27600	27800	27850	27800	28650	27950	27500	27700	27650
Avg. Daily VMT/1000	327	353	360	406	437	454	503	548	575	582	563	580	586	594	575	548	537	547	565	586

Table D-30

Humboldt County***Surface Area = 3590 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	109900	109600	110200	110600	111700	112700	114700	117000	119400	121400	123400	124700	124500	125000	125300	126300	125500	126400	127000	127800
Avg. Daily VMT/1000	2098	2221	2265	2418	2604	2700	2820	2985	3152	3155	3111	3171	3179	3207	3208	3159	3102	3150	3194	3239

Table D-31

Mendocino County***Surface Area = 3510 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	69800	70800	71800	73400	74500	75600	76800	78500	80600	81800	82400	83000	83400	83800	84300	85300	85200	85800	86900	87500
Avg. Daily VMT/1000	1301	1395	1439	1549	1631	1745	1897	2005	2142	2103	2108	2194	2247	2302	2305	2275	2260	2305	2363	2425

Table D-32

Sonoma County

Surface Area = 980 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	39800	40600	41300	42300	43500	44800	46300	47800	49300	50400	51300	52200	52600	53100	53700	54600	55400	56200	57100	57900
Avg. Daily VMT/1000	1499	1618	1729	1886	2039	2099	2205	2337	2452	2455	2477	2546	2590	2638	2627	2597	2617	2682	2734	2776

Table D-33

A portion of Sonoma County lies within the San Francisco Bay Area Air Basin.

Trinity County

Surface Area = 3190 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	12300	12400	12600	12800	12700	12600	13000	13000	13000	13100	13250	13350	13550	13500	13450	13250	13200	13050	13000	13050
Avg. Daily VMT/1000	231	238	249	272	314	309	346	363	370	350	354	364	359	357	361	355	342	348	354	361

Table D-34

Northeast Plateau Air Basin***Surface Area = 14920 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	73900	74200	74800	75200	75200	77000	78400	79100	81025	82025	82600	83475	83800	83875	86775	89000	87600	87325	88425	88450
Avg. Daily VMT/1000	1524	1616	1627	1707	1795	1912	2073	2229	2291	2322	2396	2500	2496	2518	2394	2210	2157	2205	2251	2300

Table D-35

Lassen County***Surface Area = 4560 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	23500	23700	24100	24300	24900	26500	27200	26900	27700	28200	28400	28750	28700	28900	32300	34050	33500	33650	34300	34350
Avg. Daily VMT/1000	385	429	427	450	462	497	546	586	609	618	693	713	716	721	716	700	687	703	720	737

Table D-36

Modoc County***Surface Area = 4100 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	9200	9400	9500	9400	9200	9200	9200	9400	9675	9775	9950	9975	10050	9975	9925	10050	9650	9425	9375	9450
Avg. Daily VMT/1000	181	190	194	197	201	211	217	225	241	239	243	253	256	259	257	247	237	242	250	259

Table D-37

Siskiyou County***Surface Area = 6260 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	41200	41100	41200	41500	41100	41300	42000	42800	43650	44050	44250	44750	45050	45000	44550	44900	44450	44250	44750	44650
Avg. Daily VMT/1000	958	997	1006	1060	1132	1204	1310	1418	1441	1465	1460	1534	1524	1538	1421	1263	1233	1260	1281	1304

Table D-38

Sacramento Valley Air Basin

Surface Area = 15043 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	1582400	1616600	1646600	1688200	1732600	1788600	1847400	1904000	1977600	2044500	2083650	2114200	2133700	2155550	2180600	2213400	2242250	2299700	2347200	2411750
Avg. Daily VMT/1000	29065	31538	32853	35762	38578	41928	45090	47880	47540	48559	49264	50660	51334	52178	52979	53124	54040	54955	54681	56166

Table D-39

Butte County

Surface Area = 1670 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	152500	154900	157600	161600	164400	168100	173400	176900	183200	187600	190700	192800	195300	197500	197800	199600	200400	201600	204500	206800
Avg. Daily VMT/1000	2591	2742	2896	3140	3308	3560	3847	4059	4320	4312	4283	4401	4477	4549	4450	4324	4312	4402	4496	4570

Table D-40

Colusa County

Surface Area = 1150 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	13800	14000	14000	14600	14800	14800	15300	15900	16300	16700	17000	17300	17550	17850	18150	18450	18450	18600	19050	19300
Avg. Daily VMT/1000	379	402	417	441	461	464	493	518	531	557	550	562	552	547	541	523	518	533	550	568

Table D-41

Glenn County

Surface Area = 1320 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	22200	22700	22600	22900	23000	23000	23500	24200	24850	25300	25750	25900	25950	26400	26350	26450	26300	26300	26750	26850
Avg. Daily VMT/1000	552	597	623	651	696	707	752	789	725	734	763	788	774	772	727	662	653	668	685	706

Table D-42

Placer County*Surface Area = 420 square miles*

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	105200	107400	111000	114900	119500	124800	130500	136500	145000	152900	159500	165500	170800	179000	185500	192700	199600	209000	214600	225400
Avg. Daily VMT/1000	2327	2467	2520	2783	3104	3316	3651	3878	3736	3940	4105	4326	4493	4672	4842	4978	5208	5597	6034	6341

Table D-43

Portions of Placer County lie within the Lake Tahoe and Mountain Counties Air Basins.

Sacramento County*Surface Area = 970 square miles*

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	832200	852900	869800	890700	918200	951400	981700	1011800	1046900	1080100	1096600	1111100	1116400	1120700	1134700	1149100	1165800	1204600	1230600	1267800
Avg. Daily VMT/1000	15369	16934	17533	18996	20379	22424	23964	25421	24774	25346	25691	26310	26645	27057	27621	27815	28343	27756	27090	27721

Table D-44

Shasta County*Surface Area = 3793 square miles*

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	121800	123200	125800	129100	131200	134200	138200	141800	148000	153800	156500	158100	159000	159700	160000	161200	161900	162200	165200	168600
Avg. Daily VMT/1000	2210	2377	2547	2728	2942	3104	3350	3572	3802	3855	3954	4027	4010	4009	4002	3937	3902	3985	4068	4164

Table D-45

Solano County*Surface Area = 470 square miles*

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	69500	71800	73400	76000	79700	83900	88000	92700	98300	103000	105300	107600	108700	109100	110100	112500	115000	118400	121200	123700
Avg. Daily VMT/1000	1011	1071	1146	1258	1398	1540	1698	1868	2085	2106	2135	2222	2274	2334	2424	2496	2570	2643	2703	2783

Table D-46

A portion of Solano County lies within the San Francisco Bay Area Air Basin.

Sutter County

Surface Area = 600 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	55300	56900	56800	57800	58600	59900	61200	62400	64800	67500	69700	71500	72900	74200	75000	76400	76900	78000	79400	81000
Avg. Daily VMT/1000	938	992	1078	1164	1247	1329	1422	1500	1616	1644	1636	1687	1727	1769	1793	1797	1807	1854	1921	1999

Table D-47

Tehama County

Surface Area = 2980 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	41200	42100	43000	44000	44600	45700	46900	48000	49850	51600	52800	53200	53800	54600	54600	55200	55400	55500	55800	56500
Avg. Daily VMT/1000	736	788	776	823	977	1054	1159	1239	1295	1305	1290	1331	1322	1325	1289	1231	1230	1257	1279	1304

Table D-48

Yolo County

Surface Area = 1030 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	117600	119000	120300	123500	125000	128200	132900	137100	141800	145900	148500	149500	151300	154600	156800	159800	161700	165300	169400	174500
Avg. Daily VMT/1000	2268	2423	2553	2932	3156	3460	3703	3942	3519	3621	3643	3785	3840	3924	4060	4135	4282	4419	4577	4690

Table D-49

Yuba County

Surface Area = 640 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	51100	51700	52300	53100	53600	54600	55800	56700	58600	60100	61300	61700	62000	61900	61600	62000	60800	60200	60700	61300
Avg. Daily VMT/1000	684	745	764	846	910	970	1051	1094	1137	1139	1214	1221	1220	1220	1230	1226	1215	1241	1278	1320

Table D-50

Salton Sea Air Basin***Surface Area = 6374 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	244300	251500	259800	270400	282300	296400	312700	331300	354200	373400	390100	404600	413400	422200	430000	438000	445100	457400	472000	488500
Avg. Daily VMT/1000	5523	6060	6520	7060	7739	8292	9399	10552	11284	11633	11989	12379	12675	13002	13305	13499	13824	14226	11392	11707

Table D-51

Imperial County***Surface Area = 4240 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	95300	96400	96900	98600	99800	101300	103600	106100	110100	115200	122800	130200	133500	136200	138100	139000	139200	140800	147000	149900
Avg. Daily VMT/1000	2425	2599	2623	2695	2898	3081	3366	3684	3800	3869	3941	4028	4018	4019	4038	3956	3906	3971	4090	4215

Table D-52

Riverside County***Surface Area = 2134 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	149000	155100	162900	171800	182500	195100	209100	225200	244100	258200	267300	274400	279900	286000	291900	299000	305900	316600	325000	338600
Avg. Daily VMT/1000	3098	3461	3897	4365	4841	5211	6033	6868	7484	7764	8048	8351	8657	8983	9267	9543	9918	10255	7302	7492

Table D-53

Portions of Riverside County lie within the Mojave Desert and South Coast Air Basins.

San Diego Air Basin

Surface Area = 4260 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	1965100	2003500	2055700	2109300	2182900	2260700	2341000	2432800	2504900	2554600	2590200	2597900	2611000	2615200	2627000	2680000	2725700	2776300	2835600	2890600
Avg. Daily VMT/1000	34110	36298	39958	43517	48417	52911	57207	60128	63591	64339	65063	66110	67033	67943	68651	69218	71398	73277	73909	75379

Table D-54

San Diego County

Surface Area = 4260 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	1965100	2003500	2055700	2109300	2182900	2260700	2341000	2432800	2504900	2554600	2590200	2597900	2611000	2615200	2627000	2680000	2725700	2776300	2835600	2890600
Avg. Daily VMT/1000	34110	36298	39958	43517	48417	52911	57207	60128	63591	64339	65063	66110	67033	67943	68651	69218	71398	73277	73909	75379

Table D-55

San Francisco Bay Area Air Basin***Surface Area = 5545 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	5235100	5322200	5388200	5473900	5548100	5614500	5702500	5805500	5874400	5952000	6038400	6118200	6153600	6182500	6242700	6351600	6443300	6528300	6647600	6730200
Avg. Daily VMT/1000	95067	99003	104080	109789	116645	120793	125576	130001	133990	136064	137886	140124	142311	144854	146789	148249	153056	157359	159271	161639

Table D-56

Alameda County***Surface Area = 730 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	1141400	1160500	1177200	1196000	1215200	1228800	1250600	1271000	1276100	1293300	1312000	1324200	1330700	1335100	1345700	1376800	1400900	1423300	1453200	1475800
Avg. Daily VMT/1000	20889	21794	23063	24193	25528	26294	27282	28137	28991	29075	29142	29329	29479	29721	30169	30451	31526	32404	32844	33026

Table D-57

Contra Costa County***Surface Area = 730 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	678500	689700	698000	710900	725800	740800	760800	785000	806300	823700	840800	856400	865600	872800	883400	901900	919700	937200	955300	977000
Avg. Daily VMT/1000	12944	13668	14609	15390	16564	17304	18046	18778	19335	19834	20178	20595	20981	21371	21754	22078	22811	23423	23780	24334

Table D-58

Marin County***Surface Area = 520 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	222600	222600	221200	220200	221400	221800	223000	227000	229900	233100	235700	237000	237700	238400	237900	241400	242600	244900	247700	248900
Avg. Daily VMT/1000	3595	4083	4277	4521	4818	5001	5194	5408	5620	5704	5763	5863	5941	6028	6106	6214	6391	6575	6652	6824

Table D-59

Napa County

Surface Area = 790 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	101300	101700	102000	102900	104100	104800	106100	108100	111000	112500	114400	115700	116400	117300	118200	120100	121000	122800	125400	128100
Avg. Daily VMT/1000	1553	1609	1651	1739	1922	1979	2048	2122	2184	2285	2382	2490	2590	2693	2758	2807	2850	2923	3000	3095

Table D-60

San Francisco County

Surface Area = 45 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	695200	704200	713000	727500	737500	735900	730100	724500	723200	725900	731000	742200	743300	739900	744100	749400	758200	766500	783600	789600
Avg. Daily VMT/1000	8806	9112	9462	10041	10508	10737	11077	11341	11687	11742	11789	11774	11812	11939	11948	11916	12324	12630	12661	12648

Table D-61

San Mateo County

Surface Area = 450 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	594500	604500	611200	617300	619400	625700	633700	642600	648200	653900	662000	666800	670600	675900	679900	690400	695800	700800	711700	714500
Avg. Daily VMT/1000	12703	13183	13797	14516	15598	16197	16867	17455	17965	18383	18796	19252	19734	20271	20396	20474	20899	21554	21677	22060

Table D-62

Santa Clara County

Surface Area = 1300 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	1341600	1369000	1389100	1410500	1419600	1433800	1456600	1485400	1495300	1508000	1530200	1553900	1563000	1573500	1599300	1626200	1650400	1665600	1692800	1706400
Avg. Daily VMT/1000	25886	26756	28141	29689	31224	32296	33496	34596	35537	36093	36668	37370	38049	38834	39399	39837	41415	42601	43103	43758

Table D-63

Solano County*Surface Area = 360 square miles*

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	185500	189800	192200	197300	205100	213900	222400	232500	244200	253300	256600	259600	259900	258400	258200	261400	264700	269900	273800	279400
Avg. Daily VMT/1000	3667	3870	4021	4282	4614	4853	5138	5435	5656	5675	5673	5692	5711	5725	5868	5994	6145	6307	6469	6661

Table D-64

A portion of Solano County lies within the Sacramento Valley Air Basin.

Sonoma County*Surface Area = 620 square miles*

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	274500	280200	284300	291300	300000	309000	319200	329400	340200	348300	355700	362400	366400	371200	376000	384000	390000	397300	404100	410500
Avg. Daily VMT/1000	4684	4928	5059	5418	5869	6132	6428	6729	7015	7263	7495	7759	8014	8272	8391	8478	8695	8942	9085	9233

Table D-65

A portion of Sonoma County lies within the North Coast Air Basin.

San Joaquin Valley Air Basin
Surface Area = 24850 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	2092100	2154600	2212000	2275800	2333300	2400200	2475600	2550300	2645200	2746000	2822000	2880100	2925600	2972600	3006600	3054000	3089800	3146600	3216100	3299700
Avg. Daily VMT/1000	34831	37208	38633	42075	45153	48681	52156	54895	60357	62418	64341	66859	69249	71772	73858	75562	76188	78482	81055	83407

Table D-66

Fresno County
Surface Area = 5970 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	541600	555900	571300	582800	593300	609100	627500	649000	670200	695400	716100	730700	740900	756000	766300	774800	780300	789700	806100	822000
Avg. Daily VMT/1000	8684	9402	9633	10288	10928	12101	12864	13527	14149	14793	15286	15987	16450	16980	17320	17790	17868	18370	18920	19479

Table D-67

Kern County
Surface Area = 5580 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	345400	356000	365800	377500	387100	396700	407300	418300	436600	457400	474300	485400	496000	503600	511300	521500	527700	540400	553900	566300
Avg. Daily VMT/1000	6619	7040	7365	8024	8527	8962	9518	9940	11219	11320	11461	11635	12150	12695	13216	13621	13876	14343	14819	15299

Table D-68

A portion of Kern County lies within the Mojave Desert Air Basin.

Kings County
Surface Area = 1400 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	77800	80300	81900	83900	84500	86200	92800	98300	101900	105800	108700	111500	113800	115900	116200	117900	123400	127400	130300	132700
Avg. Daily VMT/1000	1070	1135	1166	1249	1332	1517	1607	1694	1828	2046	2236	2463	2671	2887	2930	2935	2969	3040	3114	3189

Table D-69

Madera County*Surface Area = 2150 square miles*

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	68900	71000	72800	74800	76000	78600	81300	83000	88500	95300	99800	104800	107700	109900	113400	117300	118900	121700	127400	130000
Avg. Daily VMT/1000	1663	1697	1802	1957	2080	2054	2246	2413	2512	2571	2620	2687	2755	2819	2907	2935	2927	3218	3553	3719

Table D-70

Merced County*Surface Area = 1980 square miles*

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	143000	148000	152100	157000	159500	162900	167800	172000	179400	186200	190300	194800	198500	199000	198100	202000	204300	207500	210200	216400
Avg. Daily VMT/1000	2528	2613	2674	2963	3174	3378	3652	3794	4849	4961	5111	5288	5463	5640	5787	5890	5914	6098	6331	6469

Table D-71

San Joaquin County*Surface Area = 1420 square miles*

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	374100	386700	399800	417200	433700	448800	461400	471500	481900	494000	503300	508300	513800	522100	528700	536500	543700	554700	567600	590900
Avg. Daily VMT/1000	6175	6578	7036	7691	8506	9252	10016	10522	10881	11287	11706	12193	12699	13190	13625	14059	14259	14256	14866	15216

Table D-72

Stanislaus County*Surface Area = 1510 square miles*

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	281100	289100	294500	302000	312600	325200	338300	354200	373600	388100	397300	405900	410700	415300	419600	426700	431400	440900	450900	465600
Avg. Daily VMT/1000	3964	4318	4446	4823	5281	5763	6263	6719	8291	8493	8763	9068	9330	9585	9831	9967	9995	10249	10549	10855

Table D-73

Tulare County

Surface Area = 4840 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	260200	267600	273800	280600	286600	292700	299200	304000	313100	323800	332200	338700	344200	350800	353000	357300	360100	364300	369700	375800
Avg. Daily VMT/1000	4128	4425	4511	5080	5325	5654	5990	6286	6628	6947	7158	7538	7731	7976	8242	8376	8380	8638	8903	9181

Table D-74

South Central Coast Air Basin***Surface Area = 7780 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	1039200	1065700	1090100	1119300	1147000	1175300	1201000	1237200	1255900	1272500	1287900	1298200	1309700	1319000	1328900	1350100	1361500	1381400	1407500	1431600
Avg. Daily VMT/1000	15085	16563	17736	19051	20803	22351	23672	25111	26992	27207	27572	27906	28034	28218	28485	28710	29510	30276	30885	31359

Table D-75

San Luis Obispo County***Surface Area = 3180 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	166200	170800	176700	184200	190700	197100	201400	210500	217800	220800	223100	226000	228100	230200	233500	237900	240400	243700	247900	252000
Avg. Daily VMT/1000	2879	3101	3377	3735	4025	4326	4671	5016	5200	5238	5484	5515	5458	5418	5522	5572	5692	5849	5974	6099

Table D-76

Santa Barbara County***Surface Area = 2740 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	313500	322800	329200	338200	345100	351200	354600	364700	369000	374800	378500	378400	381000	383700	384900	390500	392000	394900	401500	405700
Avg. Daily VMT/1000	5396	5747	5984	6496	6990	7425	7804	8297	9216	9187	9095	9133	9052	9004	8972	8990	9209	9460	9585	9705

Table D-77

Ventura County***Surface Area = 1860 square miles***

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	559500	572100	584200	596900	611200	627000	645000	662000	669100	676900	686300	693800	700600	705100	710500	721700	729100	742800	758100	773900
Avg. Daily VMT/1000	6810	7715	8375	8820	9788	10600	11197	11798	12576	12782	12993	13258	13524	13796	13991	14148	14609	14967	15326	15555

Table D-78

South Coast Air Basin

Surface Area = 6729 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	11032700	11261600	11454700	11698000	11998500	12286600	12544800	12837600	13083500	13319500	13531800	13628200	13697300	13744900	13824200	13990900	14155000	14389300	14676400	14978200
Avg. Daily VMT/1000	168425	183725	210401	221550	234724	235967	250548	265090	275902	278151	280755	284405	287852	290888	293013	293869	301999	309067	317873	321535

Table D-79

Los Angeles County

Surface Area = 2770 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	7645100	7788000	7898000	8030400	8198100	8338100	8436400	8551200	8629000	8717100	8813800	8832100	8849700	8839000	8841200	8911900	8985000	9103900	9279800	9442400
Avg. Daily VMT/1000	117589	128014	146685	152496	159335	159086	166751	174275	178897	178939	179252	180050	180726	181009	180851	179783	183782	187267	190484	191270

Table D-80

A portion of Los Angeles County lies within the Mojave Desert Air Basin.

Orange County

Surface Area = 770 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	2043500	2086000	2119100	2166300	2218400	2268300	2316500	2372400	2412000	2458800	2511800	2550400	2575700	2604500	2646100	2699600	2749500	2802800	2856800	2910000
Avg. Daily VMT/1000	30566	33355	38460	41177	44496	44563	47396	50264	53543	54362	55201	56345	57436	58532	59419	60135	62707	64725	65356	66365

Table D-81

Riverside County

Surface Area = 2049 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	565200	588300	617800	651500	692100	739700	792900	854100	925600	976800	1008700	1032800	1050700	1070600	1090200	1113900	1136500	1173100	1202000	1252300
Avg. Daily VMT/1000	8955	10000	11269	12671	14237	15366	17859	20424	22304	23110	23947	24916	25867	26846	27704	28458	29436	30291	34479	35619

Table D-82

Portions of Riverside County lie within the Mojave Desert and Salton Sea Air Basins.

San Bernardino County*Surface Area = 1140 square miles*

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	778900	799300	819800	849800	889900	940500	999000	1059900	1116900	1166800	1197500	1212900	1221200	1230800	1246700	1265500	1284000	1309500	1337800	1373500
Avg. Daily VMT/1000	11315	12356	13987	15206	16656	16952	18542	20127	21158	21740	22355	23094	23823	24501	25039	25493	26074	26784	27554	28281

Table D-83

A portion of San Bernardino County lies within the Mojave Desert Air Basin.

California

Surface Area = 157034 square miles

Parameter	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Population	24804900	25336100	25816700	26402300	27052400	27716900	28393000	29141900	29828585	30459225	30987140	31314035	31523670	31711255	31962085	32451840	32862690	33417125	34087935	34757340
Avg. Daily VMT/1000	412042	442551	485883	517683	554307	576736	612911	645898	677171	686615	695694	708884	719798	731207	739971	745041	763449	782188	796075	810144

Table D-84

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